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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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09/01/2010

GIBBONS P.C. ONE GATEWAY CENTER NEWARK, NJ 07102 EXAMINER
PEYTON, TAMMARA R
ART UNIT PAPER NUMBER

2182

DATE MAILED: 09/01/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,723	09/18/2003	Yee Liaw	105479-58447 (644-022)	4649

TITLE OF INVENTION: KEYBOARD VIDEO MOUSE (KVM) SWITCH FOR TRANSMISSION OF HIGH QUALITY AUDIO WITH 64-BIT DATA

PACKETS WHEREIN TRANSMISSIONS OF DATA PACKETS ARE WHEREIN A DEFINED TIME LIMIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	12/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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nonprovisional	YES	\$755	\$300	\$0		\$1055	12/01/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
PEYTON, TA	AMMARA R	2182	710-062000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA	Indication form ed. Use of a Customer  TO BE PRINTED ON The field below, no assignee	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attorlisted, no name will be THE PATENT (print or typedata will appear on the parts will be pa	ely, e firm (having as a n gent) and the names neys or agents. If no printed.  e) tent. If an assignee	nember a of up to name is 3	pelow, the doc	cument has been filed for
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10/665,723 09/18/2003		Yee Liaw	105479-58447 (644-022)	4649	
26345 75	590 09/01/2010		EXAMINER		
GIBBONS P.C.		PEYTON, TAMMARA R			
ONE GATEWAY CENTER NEWARK, NJ 07102			ART UNIT	PAPER NUMBER	
			2182		
		DATE MAILED: 09/01/2010			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1378 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1378 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/665,723	LIAW ET AL.			
Notice of Allowability	Examiner	Art Unit			
	TAMMARA R. PEYTON	2182			
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commun GHTS. This application is sure and MPEP 1308.	his application. If not included ication will be mailed in due course			
2. The allowed claim(s) is/are <u>37,38,40-44 and 46-51</u> .					
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	been received. been received in Application	No	om the		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.				
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			- OF		
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) $\square$ including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of					
each sheet. Replacement sheet(s) should be labeled as such in the			01		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>			e		
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.	rmal Patent Application nmary (PTO-413), lail Date mendment/Comment tatement of Reasons for Allowance	<b>)</b>		
	/Tammara Peyto	n/			
	Primary Examine				

Application/Control Number: 10/665,723 Page 2

Art Unit: 2182

### EXAMINER'S AMENDMENT AND REASON FOR ALLOWANCE

I. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

#### II. AMENDMENT TO THE CLAIMS AND TITLE

#### Election/Restrictions

This application is in condition for allowance except for the presence of claims 1-36 directed to non-elected Species I, without traverse. Accordingly, claim 1-36 have been cancelled.

## CLAIMS 1-36 (CURRENTLY CANCELLED)

The application has been amended as follows:

Pursuant to MPEP 606.01, the title has been changed to read:

-- KEYBOARD VIDEO MOUSE (KVM) SWITCH FOR TRANSMISSION OF HIGH QUALITY AUDIO WITH 64-BIT DATA PACKETS WHEREIN TRANSMISSIONS OF DATA PACKETS ARE WHEREIN A DEFINED TIME LIMIT -- Art Unit: 2182

## III. ALLOWABLE SUBJECT MATTER

The following is an examiner's statement of reasons for allowance based on the previously and currently sited prior art, therein, claims 37 and 43 include allowable subject matter and considered pertinent to the applicant's disclosure, taken individually or in combination, the prior art of record does not teach or suggest the claimed limitations having:

"... receiving keyboard signals, video signals, mouse signals, and audio signals at a transmission node; forming a 64 bit data packet comprising a first section of 2 bits including overhead data, a second section of 34 bits including audio signals, a third section of 10 bits including keyboard and mouse signals, and a fourth section of 18 bits including auxiliary data; encoding a vertical synchronization signal onto one of a red, blue, and green component of said Video signals; encoding a horizontal synchronization signal onto one of said red component, said blue component, and said green component of said video signals; transmitting said data packet to a receiving node via a first pair of wires in an eight conductor cable; wherein the receiving at a transmission node and transmitting of said data packets to a receiving node occurs within a defined time limit transmitting said red component of said video signals to said receiving node via a second pair of wires in said eight conductor cable; transmitting said blue component of said video signal to said receiving node via a fourth pair of wires in said eight conductor cable; and transmitting said green component of said video signal to said receiving node via a third pair of wires in said eight conductor cable."

The remaining claims 38-42, 44, 46-51 are allowed by virtue of their dependencies on the independent claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

Art Unit: 2182

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammara Peyton whose telephone number is (571) 272-4157. The examiner can normally be reached between 6:30 - 4:00 from Monday to Thursday, (I am off every first Friday), and 6:30-3:00 every second Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on (571) 272-6729. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

/Tammara R Peyton/
Primary Examiner, Art Unit 2182

August 26, 2010

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The Examiner is maintaining the rejection for claims 49 and 51 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. 49. (New) The computer-readable storage medium according to Claim 37, wherein the defined time limit is about 6.0 to 8.1 microseconds.

Claims 37 and 43 recites the limitation "wherein the receiving at a transmission node and transmitting of said data packets to a receiving node occurs within a defined time limit". There is insufficient antecedent basis for this limitation in the claim.

Examiner unsure of the claimed language, specifically "the receiving at a transmission node...a receiving node," is this the same transmission node and receiving node mention on lines 5 and 16, respectfully of claim 37? Explanation/Correction is required.

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# Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 37, 38, 40-43, 46, and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admission of Prior Art (AAPA) via Ahern et al. (US 6,388,658) and Thornton et al., (US 6,385,666) and Thornton et al. (US 6,633,934).